**Indigenous Technology in Telecom-munication Sector**

97. PROF. C. LAKSHMANNA- Will the Minister of COMMUNICATIONS be pleased to state:

(a) what is the number of elec tronic telephone exchanges installed in rural areas by the end of March, 1988;

(b) how many electronic exchanges are proposed to be installed by the end of Seventh Five Year Plan;

(c) what percentage of the technology used for electronic exchanges is indigenous one; and

(d) by when Government propose to use exclusive Indian technology in telephone exchanges?

THE MINISTER OF ENERGY AND THE MINISTER OF COM-MUNICATIONS (SHRI VASANT SATHE); (a) 47 electronic exchanges have been commissioned by the and of March, 1988.

(b) It is propsed to commission about (1500 more electronic exchanges in the rural areas of the country by the end of 7th Five Year Plan.

(c) Rural exchanges utilise wholly indigenous technology.

,(d) (i) Electronic exchanges to be commissioned in the rural; areas will employ indigenous technology .developed by C-DOT (128 Fori -RAXs and ,TRC/ITI (Mini ILT and 9 line ESAX etc.) which are to be introduced progressively in. the rural network.

(ii) Electronic exchanges of medium capacity and large capacity utilise imported technology. The equipment for large size exchanges is being manufactured at the Man-kapur factory of TH.

(iii) Centre for Development of Telematics is developing medium size and large size electronic exchanges equipment using indige-noug technology. Production ' of this equipment will be taken up by M/s. ITI at Bangalore after the development work is completed.

**Coal reserves in lb Valley**

" 98. SHRI JAGADISH JANI: Will' the Minister of ENERGY be pleased to state:

(a) the approximate total coa\ deposits, gradewise, as on 31st March, 1988 in the lb Valley Coal fields in Orissa;

(b) the steps taken for the development of coal reserves in lb Valley Coal field of Orissa; and

(c) what are the details thereof?

THE .MINISTER OF ENERGY AND THE MINISTER OF COMMUNICATIONS (SHRI VASANT SATHE): (a) As per regional ex. ploration carried out by Geological Survey of India, as on 1.1,88, lb "Valley /Coal field of Orissa, has coal reserves "of 16808.12 million tonnes. The details are given below:—

| Type of Coal | Proved | Indicated | Inferred | Total |
|---|---|---|---|---|
| Gondwana Coals . . . . | 2148.81 | 6463.75 | 8195.56 | 16808.12 |

(b) and (c) The working mines of lb Valley Coalfield produced 4.04 million tonnes of coal in. 1987-88. In addition to the above working mines, 5 new coal mining projects have been planned to exploit the